

ABSTRACT

COLOUR SEQUENTIAL ILLUMINATION SYSTEM, METHOD OF
PRODUCING A COLOUR WHEEL FOR THE SYSTEM AND DEVICE OF
COLOURED SEGMENTS

The invention relates to an imager sequential illumination system comprising:

- a source emitting a polychromatic light beam towards the imager within the wavelength range comprising at least three primary colours,

- a colour wheel comprising at least three transmissive or reflective segments intended to scroll over the optical path of the said light beam in such a way they successively cut the direction of propagation of said beam.

The coloured segments are distributed on the said wheel in such an order that the differences of energies perceived by the visual organ of a standard observer (visual stimuli), during the intersegment transitions, when the segments scroll over the optical path of the beam, is the most equivalent possible.

Applications: projection and rearprojection apparatus

Figure for the abstract: FIGURE 4C